



# Mine Site Safety Inspection Che

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Inspector		Date		Signature	
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## Air quality

Inspection Item	Note	Good	Repair	Replace	NA
Conduct dust, gas, mist, and fume surveys as frequently as necessary to determine adequacy of control measures		■	■	■	■
Control exposure of employees to airborne contaminants (prevention, control measures, respirators, etc.)		■	■	■	■

## Electricity

Inspection Item	Note	Good	Repair	Replace	NA
Circuits must be protected against overload by fuses or circuit breakers of correct type and capacity		■	■	■	■
Electric equipment and circuits must have approved switches or controls and be of approved design and properly installed		■	■	■	■
Short circuit protection shall be provided for the trailing cables of mobile equipment		■	■	■	■
Conductors shall be of sufficient size and carrying capacity, and shall be protected from mechanical damage		■	■	■	■
Mobile equipment shall not run over power conductors, nor shall loads be dragged over conductors (unless bridged or protected)		■	■	■	■
Distribution boxes shall be provided with a disconnect device for each branch circuit, designed so visual observation shows when circuit is deenergized, and box labeled to show which circuit each device controls		■	■	■	■
Power cable connections to junction boxes shall not be made or broken under load		■	■	■	■
Where power wires/cables pass into compartments, they shall be adequately insulated, use only proper fittings (or insulated bushings for insulated wires other than cables)		■	■	■	■
Phone and low voltage wires shall be protected (by isolation or insulation) from contacting energized power conductors or any other power source		■	■	■	■
High potential electrical conductors shall be covered, insulated, or placed to prevent contact with low potential conductors		■	■	■	■
Permanent splices and repairs made to power cables shall be as near as possible to the original as to mechanical strength, insulated, and damage protection		■	■	■	■
Energized power cables in excess of 150 volts shall not be moved unless suitable, insulated protection is provided		■	■	■	■
Electrically powered equipment shall be deenergized before mechanical work is done: power switches locked out, warning notices posted and signed, locks or preventative devices		■	■	■	■
Power circuits shall be deenergized before work is done, suitable warning signs posted, switches locked out, locks or preventative devices used		■	■	■	■
Principal power switches shall be labeled to show which units they control		■	■	■	■
Suitable clearance shall be provided at stationary electrical equipment or switchgear		■	■	■	■
Dry wood platforms, insulating mats, or other nonconductive mat'l shall be in place at all switchboards and power-control switches		■	■	■	■
Danger signs shall be posted at all major electrical installations		■	■	■	■

Inspection Item	Note	Good	Repair	Replace	NA
Areas of major electrical installations shall only be entered by authorized persons		■	■	■	■
Electrical connections that are difficult or impractical to insulate shall be guarded		■	■	■	■
All metal enclosing or encasing electrical circuits shall be grounded		■	■	■	■
Metal fencing and metal buildings enclosing transformers and switchgear shall be grounded		■	■	■	■
Continuity and resistance of grounding systems shall be tested immediately after installation, repair, modification, and annually thereafter; make records available for the inspector upon request		■	■	■	■
When a potentially dangerous condition is found, it shall be corrected before equipment or wiring is energized		■	■	■	■
Keep inspection and cover plates on electrical equipment and junction boxes in place at all times (except during testing or repairs)		■	■	■	■
Hand-held electric tools shall not be operated at high potential voltages		■	■	■	■
Portable lights that pose a shock or burn hazard shall be guarded		■	■	■	■
Lamp sockets shall be waterproof type if exposed to weather or wet conditions that may pose a shock hazard		■	■	■	■
Fuses shall not be removed or replaced in an energized circuit		■	■	■	■
Fuse tongs or hot line tools shall be used when fuses are removed or replaced in high-potential circuits		■	■	■	■
Operating controls shall be installed so they can be operated without danger of contact with energized conductors		■	■	■	■
Switches and starting boxes shall be of safe design and capacity		■	■	■	■
Powerlines and phone circuits shall be protected against short circuits and lightning		■	■	■	■
Transformers shall be totally enclosed		■	■	■	■
Transformer enclosures shall be kept locked against unauthorized entry		■	■	■	■

### ***Fire prevention & control***

Inspection Item	Note	Good	Repair	Replace	NA
Abandoned electrical circuits must be deenergized and isolated to prevent becoming inadvertently energized		■	■	■	■
No smoking or use of flame allowed where flammable or combustible liquids, greases, or gases are used, stored, or handled		■	■	■	■
Visible warning signs prohibiting smoking and open flames must be posted where fire or explosion hazard exists		■	■	■	■
Flammable liquid spillage or leakage must be timely removed to prevent a fire hazard		■	■	■	■
Engines must be switched off prior to refueling (N/A to diesel-powered equipment)		■	■	■	■
Waste materials and liquids shall not accumulate in qlys that could create fire hazard		■	■	■	■
Until disposed, flammable waste & rags shall be placed in covered metal containers		■	■	■	■
No combustible materials shall be stored or accumulate within 25' of electric substations, flammable liquid storage tanks, or any containers storing over 60 gals of flammable liquids		■	■	■	■
The area within the 25' perimeter shall be kept free from dry vegetation		■	■	■	■
Each mine site shall have onsite fire fighting equipment, strategically located, readily accessible, plainly marked, maintained in fire-ready condition		■	■	■	■
Fire extinguishers shall be visually inspected at least once per month, and professionally maintained at least once per year		■	■	■	■
Certified records of each inspection shall be maintained for one year or until retested		■	■	■	■

Inspection Item	Note	Good	Repair	Replace	NA
Fire hydrants shall be equipped with uniform fittings for firefighting, readily available wrenches and adapters/fittings for firefighting		■	■	■	■
Fire extinguishers shall be recharged or replaced promptly after any discharge		■	■	■	■
A fire extinguisher shall be provided on self-propelled equipment (or within 100' if fire would not impede escape)		■	■	■	■
Operator shall establish emergency firefighting, evacuation, and rescue procedures		■	■	■	■
Emergency firefighting drills shall be held at least once every 6 months		■	■	■	■
Flammable liquids shall not be used for cleaning		■	■	■	■
Solvents shall not be used near an open flame, ignition source, heat source, or in any atmosphere that can elevate the temp of the solvent above its flash point		■	■	■	■
Fixed, flammable liquid storage tanks shall be securely mounted on firm foundations		■	■	■	■
Small quantities of flammable liquids shall be kept in safety cans labeled with its contents		■	■	■	■
Storage tanks (including piping, valves, fittings) for flammable liquids shall be capable of withstanding pressures, maintained to prevent leakage, isolated from ignition sources, and properly vented		■	■	■	■
Heat sources shall be separated from combustible materials if a fire hazard could be created		■	■	■	■
Fuel lines shall be equipped with valves capable of stopping fuel flow at the source		■	■	■	■
Battery charging stations: properly ventilated, no smoking or use of open flames, readily visible warning signs posted preventing smoking and open flame use		■	■	■	■
When welding or cutting, an appropriately rated fire extinguisher shall be at the work site		■	■	■	■
Oxygen cylinders shall not be stored in areas designated for storage of flammable liquids		■	■	■	■
Keep gauges and regulators used with oxygen and acetylene cylinders clean and free from oil and grease		■	■	■	■
Valves on oxygen and acetylene cylinders shall be closed when: moved, torch/hoses left unattended, or task is completed		■	■	■	■
Take proper precautions before welding, cutting, or applying heat to pipelines/containers with flammable liquids, gases, or explosive solids		■	■	■	■

## Ground control

Inspection Item	Note	Good	Repair	Replace	NA
Must maintain wall, bank, and slope stability in places where persons work or travel		■	■	■	■
Must correct fall-of-material hazards at or near the perimeter of the pit wall; loose or unconsolidated material must be sloped or stripped at least 10' from top of pit wall		■	■	■	■
Ground conditions that create hazards must be corrected before work or travel allowed; until corrected, area must be posted w/warning signs and barriered		■	■	■	■
An experienced person must examine ground conditions prior to beginning work, after blasting, and as ground conditions warrant		■	■	■	■
Scaling must be performed in an area that does not expose persons to injury from falling material		■	■	■	■
Persons shall not work between machinery/equipment and the highwall or bank (where escape from falls/slides would be hindered)		■	■	■	■

## Hazcom

Inspection Item	Note	Yes	No	NA
All containers of hazardous materials must be properly labeled		■	■	■

Inspection Item	Note	Yes	No	NA
Must have an SDS for each hazardous chemical produced or used		■	■	■
SDS must be kept onsite or readily available to miners in an emergency		■	■	■
Must retain SDS as long as hazardous chemical is at the mine, and must notify miners at least 3 months before disposing of the MSDS		■	■	■
Miners must receive Hazcom training		■	■	■
Develop, implement, and maintain a written Hazcom program per section 47.32		■	■	■

### ***Illumination***

Inspection Item	Note	Yes	No	NA
Illumination sufficient to provide safe working conditions shall be provided in and on all surface structures, paths, walkways, stairways, switch panels, loading and dumping sites, and work areas		■	■	■

### ***Loading, hauling, dumping***

Inspection Item	Note	Good	Repair	Replace	NA
Persons shall not get on or off moving mobile equipment		■	■	■	■
Establish and follow rules about speed, ROW, direction of movement, and headlight use; place signs/signals warning of hazardous conditions at appropriate locations		■	■	■	■
Operators of equipment must maintain control while in motion and use safe operating speeds		■	■	■	■
Persons shall not be transported on forks, buckets, beds, top of loads, in overcrowded equipment, or on equip where materials/equip are not secured		■	■	■	■
Equipment/supplies shall be loaded, transported, unloaded in manner to not create a hazard to persons from falling/shifting equipment or supplies		■	■	■	■
Provide berms/guardrails on banks of roadways where a drop-off danger exists		■	■	■	■
Where restricted clearance creates a hazard for equip operators, install advance warning devices and conspicuously mark the restricted area		■	■	■	■
Remove water, debris, or spilled material on roadways that creates hazards to operating equipment		■	■	■	■
Control dust where impaired visibility hazards would exist		■	■	■	■
Persons shall not pass under suspended loads		■	■	■	■

### ***Machinery***

Inspection Item	Note	Good	Repair	Replace	NA
ROPS and seat belts shall be installed on: crawler tractors & loaders, graders, wheel loaders & tractors, skid-steer loaders, agri. Tractors, & tractor portion of semi-mounted scrapers/dumpers/water wagons		■	■	■	■
ROPS shall be maintained to meet the mfr performance requirements; if subjected to rollover, shall be re-certified prior to re-use; alterations or repairs only by mfr or authorized engr & shall be recertified		■	■	■	■
Seat belts shall be worn by the equipment operator		■	■	■	■
Seat belts shall be maintained in functional condition, and replaced when necessary to assure proper performance		■	■	■	■
Manually-operated horns or other audible warning devices on self-propelled equip shall be maintained in functional condition		■	■	■	■
When operator has rear obstructed view, equip shall have: 1) automatic reverse-activated signal alarm, 2) wheel-mounted bell alarm, 3) discriminating backup alarm, or 4) an observer to signal safe back up		■	■	■	■
When operator has rear obstructed view, equip shall have alarms audible above the surrounding noise level, or an auto reverse-activated strobe light may be used at night in lieu of audible reverse alarm		■	■	■	■

Inspection Item	Note	Good	Repair	Replace	NA
Before starting crushers or moving self-propelled mobile equip, operators shall sound a warning audible above the surrounding noise level or use other means to warn all persons exposed to a hazard		■	■	■	■
Before starting a conveyor, operator shall visually check to make sure all persons are in the clear (if entire conveyor visible to operator) or shall make audible/visible warning and start conveyor within 30 seconds		■	■	■	■
Pulleys of conveyors shall not be cleaned manually while the conveyor is in motion		■	■	■	■
Belt dressings shall not be applied manually while belts are in motion unless a pressurized applicator is used that allows dressing to be applied outside the guards		■	■	■	■
Machinery or equip shall not be lubricated manually while in motion where application of lubrication may expose persons to injury		■	■	■	■
Machinery, equip, and tools shall not be used beyond the design capacity intended by mfr where such use may create a hazard to persons		■	■	■	■
When moving mobile equip, booms/forks/bucks/beds/similar movable parts shall be positioned in travel mode and, if required for safe travel, mechanically secured		■	■	■	■
When mobile equip is unattended or not in use, dippers/buckets/scraper blades shall be lowered to the ground; other movable parts (i.e. booms) shall be mechanically secured or positioned to prevent movement		■	■	■	■
Mobile equip shall not be left unattended unless controls are placed in park and parking brake is set; when parked on a grade, wheels or tracks shall be either chocked or turned into a bank		■	■	■	■
Visible warning devices shall be used when parked equip creates a hazard to persons in other equipment		■	■	■	■
A properly sized tow bar or other effective means of control shall be used to tow mobile equipment		■	■	■	■
A safety chain or wire rope capable of withstanding the loads shall be used in conjunction with any primary rigging (unless steering & braking are under control of operator on the towed equip)		■	■	■	■
Dippers/buckets/loading booms/suspended loads shall not be swung over the operators' station of self-propelled mobile equip until the operator is out of the station and in a safe location		■	■	■	■
Persons shall not work on top/under/in raised position on mobile equip until the equip has been blocked or mechanically secured to prevent it from rolling or falling accidentally		■	■	■	■
Persons shall not work on top/under/from a raised component of mobile equip until the component has been blocked or mechanically secured to prevent accidental lowering or rolling		■	■	■	■
A raised component must be secured to prevent accidental lowering when persons are working on or around mobile equip & are exposed to hazard of accidental lowering of the component		■	■	■	■
Chains, ropes, and drive belts shall be guided mechanically onto moving pulleys/sprockets/drums except where equipment is designed specifically for hand feeding		■	■	■	■
Welding operations shall be well-ventilated and shielded from arc flash		■	■	■	■

Inspection Item	Note	Yes	No	NA
Operator shall conduct pre-shift inspection prior to using mobile equipment; note any safety defects; report and record defects and if any hazards, take out of service		■	■	■
Mobile equipment shall have functioning brakes and parking brakes		■	■	■
Windows on equipment shall be safety glass and maintained to provide visibility for safe operation		■	■	■
Equipment operator's station shall be free of mat'ls that could impair the safe operation of the equipment, and not modified in a manner that obscures visibility		■	■	■
Tire repair: partially remove valve core for gradual deflation, and stand outside the trajectory; where possible, use wheel cage or other restraining device		■	■	■
Only perform repairs/maintenance on machinery or equipment after power is off and equipment is blocked against hazardous motion		■	■	■

Inspection Item	Note	Yes	No	NA
Provide fork-lifts, loaders, and dozers with falling object protective structures capable of withstanding falling object loads		■	■	■
Moving machine parts shall be guarded to protect persons from contacting gears, sprockets, chains, pulleys, flywheels, couplings, shafts, fan blades, and similar moving parts		■	■	■
No guards are required where the exposed moving parts are at least 7' away from walking or working surfaces		■	■	■
Overhead drive belts shall be guarded to contain the whipping action of a broken belt		■	■	■
Equip unguarded conveyors next to travelways with emergency stop devices or with railings to prevent persons from falling on/against conveyor, that withstand vibration/shock/wear, and constructed/maintained to not create a hazard.		■	■	■
Provide guards, shields, or other devices to protect persons from flying or falling materials from operations of screens/crushers/conveyors		■	■	■
Guards shall be constructed/maintained to withstand vibration/shock/wear during normal operation, not create a hazard, be securely in place when operated (except when testing/adjusting)		■	■	■
Backstops or brakes shall be installed on inclined conveyors to prevent the conveyor from running in reverse and creating a hazard to persons		■	■	■
A manual master quick-close air valve shall be installed on all pneumatic-powered equipment; the valve shall be closed except when the equipment is being operated		■	■	■
Stationary grinding machines shall be equipped with: peripheral hoods, adjustable tool rests not farther than 1/8" from the grinding surface, and a safety washer on each side of the wheel		■	■	■
Hand held power tools (drills, sanders, grinders, etc.) shall have controls that require constant hand or finger pressure, and not be equipped with lock-on operating controls		■	■	■

## **Materials storage & handling**

Inspection Item	Note	Yes	No	NA
Supplies shall not be stacked or stored in a manner which creates tripping or fall-of-material hazards		■	■	■
Equip bins, hoppers, silos, tanks, and surge piles with effective means to handle materials so that during normal operations persons are not required to enter or work where exposed to entrapment by caving or sliding of materials		■	■	■
Equip bins, hoppers, silos, tanks, and surge piles with supply & discharge operating controls, located so spills/overruns will not endanger persons		■	■	■
Provide suitable walkways or passageways where persons are required to move around or over bins, hoppers, silos, tanks, or surge piles.		■	■	■
Materials that can create hazards if accidentally liberated from their containers shall be stored in a manner that minimizes the dangers		■	■	■
Containers holding hazardous materials must be of an approved type		■	■	■
Compressed and liquid gas cylinders shall be secured in a safe manner		■	■	■
Valves on compressed gas cylinders shall be protected by covers when being transported or stored, and by a safe location when the cylinders are in use		■	■	■
Taglines shall be attached to loads that may require steadying or guidance while suspended; hitches & slings used to hoist materials shall be suitable for the particular material handled		■	■	■
Persons shall stay clear of suspended loads		■	■	■
Material shall not be dropped from an overhead elevation until the drop area is first cleared of personnel and the area is either guarded or suitable warning is given		■	■	■
Persons shall not ride on loads being moved by cranes or derricks, nor shall they ride the hoisting hooks		■	■	■
Chemical substances shall be stored to prevent inadvertent contact with each other or with other substances, where such contact could cause a violent reaction or release of harmful fumes/gases		■	■	■

Inspection Item	Note	Yes	No	NA
Forklifts shall be operated with the: a) uplift titled back to steady and secure the load, b) load in upgrade position when on a >10% uphill or downhill grade, c) load not raised/lowered except minor adjustments, d) load engaging device downgrade when traveling unloaded on all grades		■	■	■

### **Notification**

Inspection Item	Note	Good	Repair	Replace	NA
Must notify local MSHA district office prior to starting operations		■	■	■	■

### **Personal protection**

Inspection Item	Note	Yes	No	NA
Adequate first-aid materials, including stretchers and blankets, shall be provided at places convenient to all working areas; water or neutralizing agents shall be available where chemicals are stored/handled/used		■	■	■
All persons shall wear suitable hard hats when in or around a mine or plant		■	■	■
All persons shall wear ANSI Class II Vests when in or around the mine.		■	■	■
All persons shall wear suitable protective footwear when in or around a mine		■	■	■
All persons shall wear safety glasses, goggles, or face shields when in or around a mine		■	■	■
Safety belts and lines shall be worn when persons work where there is danger of falling; a second person shall tend the lifeline when bins/tanks/other dangerous areas are entered		■	■	■
Special protective equip and clothing shall be provided & maintained in sanitary & reliable condition and used whenever chemical/environmental/radiological/mechanical irritants are encountered		■	■	■
Protective clothing or equip and face shields or goggles shall be worn when welding, cutting, or working with molten metal		■	■	■
Face shields or goggles in good condition shall be worn when operating a grinding wheel		■	■	■
Life jackets or belts shall be worn where there is a danger from falling into water		■	■	■

### **Reporting accidents, injuries, illnesses**

Inspection Item	Note	Yes	No	NA
Operator must maintain accident investigation reports required by 50.11 for 5 years after occurrence		■	■	■
Operator must investigate all accidents and injuries and submit report to MSHA		■	■	■
Operator may not alter accident site until MSHA has completed its investigation		■	■	■
Operator must complete Form 7000-1 and mail to MSHA within 10 working days after an accident or injury		■	■	■
Quarterly employment & production reports (Form 7000-2) must be filed within 15 days after end of each calendar quarter, and be maintained for 5 years		■	■	■
Operator must maintain 7000-1 and 7000-2 reports for 5 years after submission		■	■	■
Must notify MSHA within 15 minutes of an accident		■	■	■

### **Safety programs**

Inspection Item	Note	Yes	No	NA
A competent person designated by operator shall examine each working place at least once each shift for unsafe or hazardous conditions; operator shall promptly initiate action to correct such conditions		■	■	■
A record that such exams were conducted shall be kept by the operator for one year and made available for review by MSHA		■	■	■

Inspection Item	Note	Yes	No	NA
Conditions that may present imminent danger shall be brought to the immediate attention of the operator who shall withdraw all persons from the area affected until the danger is abated		■	■	■
New employees shall be indoctrinated in safety rules and safe work procedures		■	■	■
When persons are working at a mine, a competent person designated by the mine operator shall be in attendance to take charge in case of an emergency		■	■	■

## Training

Inspection Item	Note	Yes	No	NA
New miners must receive 24 hrs of training per paragraphs b-d (including 4 hours minimum before beginning work at the mine)		■	■	■
Develop & implement a written training plan (site-specific)		■	■	■
Newly hired experienced miners must receive site-specific training prior to beginning work at the mine		■	■	■
Annual refresher training of 8 hrs is required (verify that all miners are current)		■	■	■
Maintain signed, written Form 5000-23 records of all miner training, and provide a copy to miner upon completion of training		■	■	■
Employees must be paid for training, including mileage, meals, and any lodging incurred		■	■	■
Site specific hazard awareness training is required before anyone is exposed to mine hazards (includes office/management staff, visitors, QC, delivery workers, service/repair persons, etc. unless always accompanied by an experienced miner)		■	■	■
Operator must provide site-specific hazard awareness training to independent contractors		■	■	■

## Travelway

Inspection Item	Note	Good	Repair	Replace	NA
Provide and maintain safe access to all working places		■	■	■	■
Provide handrails and maintain in good condition all stairways and elevated walkways and ramps		■	■	■	■
Ladders shall be of substantial construction and maintained in good condition		■	■	■	■
Portable rigid ladders shall be securely placed and have suitable bases		■	■	■	■
Fixed ladders shall be anchored securely and installed to provide at least 3' of toe clearance		■	■	■	■
Fixed ladders shall project at least 3' above landings (or substantial handholds provided above the landings)		■	■	■	■
Wooden components of ladders shall not be painted (except with a transparent finish)		■	■	■	■
Restricted clearances shall be conspicuously marked		■	■	■	■
Inclined railed walkways shall be nonskid or provided with cleats		■	■	■	■
Vertical clearance over stair steps shall be 7' minimum (or suitable warnings posted indicating an impaired clearance)		■	■	■	■
Persons using ladders shall face the ladder and have both hands free for climbing/descending		■	■	■	■
Openings above/below/near travelways shall be protected by railings, barriers or covers (or if impractical, adequate warning signals are required)		■	■	■	■
Regularly used walkways/travelways shall be sanded, salted, or cleared of snow and ice as soon as practicable		■	■	■	■
Fixed ladders shall not incline backwards		■	■	■	■
Scaffolds and working platforms shall be of substantial construction and have handrails; floor boards shall be properly placed and not overloaded		■	■	■	■